

What is claimed is:

1. A parallel driving mechanism for optical chassis, comprising;
- 5 a rectangular and hollow casing including four side walls and a bottom wall upon which two parallel guide rails are located, one of the side walls having two symmetrical first pivotal joints located thereon;
- an optical chassis reciprocally movable in the casing for scanning operation having two rollers located at two ends and two symmetrical second pivotal joints located on a side wall thereof;
- 10 a linkage member having two symmetrical upper links pivotally engageable at one end thereof with one end of two symmetrical lower links on two sleeves which have opposite internal screw threads formed therein, the upper and lower links have respectively another ends pivotally engageable with the first and second pivotal joints;
- 15 a screw bar having two opposite external screw threads engageable with the two sleeves respectively; and
- a driving member engageable with one end of the screw bar for moving the sleeves to and fro to drive the linkage member for moving the optical chassis reciprocally in the casing.
- 20 2. The parallel driving mechanism of claim 1, wherein the upper and lower links have same length.
3. The parallel driving mechanism of claim 1, wherein the upper and lower links have different lengths.
4. The parallel driving mechanism of claim 1, wherein the driving member
- 25 includes a motor for generating output power and a gear set for transmitting output power to the screw bar.
5. The parallel driving mechanism of claim 4, wherein the casing further has a guide rod parallel to moving direction of the optical chassis for slidably engaging with a guide bore in the driving member for the same
- 30 to move with the optical chassis reciprocally driving scanning operation.

6. The parallel driving mechanism of claim 1, wherein the optical chassis includes a scanning light source, a reflection mirror set, a lens set and a charged couple device.

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